INTERNATIONAL SEARCH REPORT

International application No.

PCT	JP2	004	/01	.95	86
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	PCT/	JP2004/019586	
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl7 H01Q9/28, 1/38, G06K19/00			
According to International Patent Classification (IPC) or to both nation	al classification and IPC		
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by one of the control of the cont			
Documentation searched other than minimum documentation to the ext			
	oroku Jitsuyo Shinan Koho itsuyo Shinan Toroku Koho		
Electronic data base consulted during the international search (name of	data base and, where practicable, sea	ırch terms used)	
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category* Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
Y JP 2002-259934 A (Dainippon Ltd.), 13 September, 2002 (13.09.02 Par. Nos. [0017] to [0021]; (Family: none)),	1-12	
Y JP 2002-11348 A (Kenwood Con 12 April, 2002 (12.04.02), Par. Nos. [0030] to [0034]; (Family: none)		1-12	
Y JP 2002-135037 A (Mitsubishi 10 May, 2002 (10.05.02), Full text; all drawings (Family: none)	i Electric Corp.),	4-6	
Further documents are listed in the continuation of Box C.	See patent family annex.		
Special categories of cited documents: "A" document defining the general state of the art which is not considered.	"T" later document published after the	ne international filing date or priority application but cited to understand	
to be of particular relevance "E" earlier application or patent but published on or after the international	the principle or theory underlying "X" document of particular relevance;	the invention the claimed invention cannot be	
filing date "L" document which may throw doubts on priority claim(s) or which is		considered to involve an inventive	
cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance;	; the claimed invention cannot be	
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Date of the actual completion of the international search 24 January, 2005 (24.01.05)	Date of mailing of the international search report 08 February, 2005 (08.02.05)		
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer		
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Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
JP 2003-309418 A (Alps Electric Co., Ltd.), 31 October, 2003 (31.10.03), Full text; all drawings (Family: none)	8
JP 2002-290131 A (Mitsubishi Materials Corp.), 04 October, 2002 (04.10.02), Par. No. [0007]; Figs. 1, 2 & WO 2002/50951 A1 & WO 2003/30300 A1 & EP 1347533 A1 & US 2004-75616 A & EP 1439608 A	9
JP 11-251509 A (Toshiba Corp.), 17 September, 1999 (17.09.99), Par. Nos. [0009] to [0015]; Fig. 4 (Family: none)	10
JP 9-83239 A (Matsushita Electric Industrial Co., Ltd.), 28 March, 1997 (28.03.97), Full text; all drawings (Family: none)	11
JP 2001-251117 A (Mitsubishi Electric Corp.), 14 September, 2001 (14.09.01), Full text; all drawings (Family: none)	1-12
	Citation of document, with indication, where appropriate, of the relevant passages JP 2003-309418 A (Alps Electric Co., Ltd.), 31 October, 2003 (31.10.03), Full text; all drawings (Family: none) JP 2002-290131 A (Mitsubishi Materials Corp.), 04 October, 2002 (04.10.02), Par. No. [0007]; Figs. 1, 2 & WO 2002/50951 Al & WO 2003/30300 Al & EP 1347533 Al & US 2004-75616 A & EP 1439608 A JP 11-251509 A (Toshiba Corp.), 17 September, 1999 (17.09.99), Par. Nos. [0009] to [0015]; Fig. 4 (Family: none) JP 9-83239 A (Matsushita Electric Industrial Co., Ltd.), 28 March, 1997 (28.03.97), Full text; all drawings (Family: none) JP 2001-251117 A (Mitsubishi Electric Corp.), 14 September, 2001 (14.09.01), Full text; all drawings

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